

Title (en)

Magnetic coated carrier, two-component type developer and developing method

Title (de)

Beschichtete magnetische Trägerteilchen, zwei-Komponententyp-Entwickler und Entwicklungsverfahren

Title (fr)

Particules de support magnétiques revêtues, révélateur du type à deux composants et procédé de développement

Publication

**EP 0801335 B1 20010829 (EN)**

Application

**EP 97302356 A 19970407**

Priority

JP 8524096 A 19960408

Abstract (en)

[origin: EP0801335A1] A magnetic coated carrier suitable for constituting a two-component type developer for use in electrophotography is composed of magnetic coated carrier particles comprising magnetic carrier core particles each comprising a binder resin and metal oxide particles, and a coating layer surface-coating each carrier core particle. The metal oxide particles have been subjected to a surface lipophilicity-imparting treatment. The magnetic carrier core particles have a resistivity of at least  $1 \times 10^{10}$  ohm.cm, and the magnetic coated carrier has a resistivity of at least  $1 \times 10^{12}$  ohm.cm. The magnetic coated carrier has a particle size distribution such that (i) it has a number-average particle size  $D_n$  of 5 - 100  $\mu$ m, (ii) it satisfies a relationship of  $D_n / \sigma \geq 3.5$ , wherein  $\sigma$  denotes a standard deviation of number-basis particle size distribution of the carrier, and (iii) it contains at least 25 % by number of particles having particle sizes of at most  $D_n \times 2/3$ . <IMAGE>

IPC 1-7

**G03G 9/107**; **G03G 9/113**; **G03G 9/10**

IPC 8 full level

**G03G 9/08** (2006.01); **G03G 9/10** (2006.01); **G03G 9/107** (2006.01); **G03G 9/113** (2006.01)

CPC (source: EP KR US)

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Cited by

EP1065571A3; EP0999478A1; EP0889369A1; EP0928997A1; EP0999477A1; US6002900A; EP0884653A3; US6124067A; EP0974873A3; US2010310978A1; US9034551B2; US6312862B1; US9944053B2; US10118370B2; US6506531B1; US9637630B2; US9790369B2; EP2267553A4

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